

ABSTRACT OF THE DISCLOSURE

A packaging apparatus, which is equipped with sensors, actuators and a drive system, including a servo motor, a central control unit and a system for data transmission. The actual values of the sensors, actuators and the drive system are recorded, in digital form, in each case, and transferred with the use of a transmission protocol by way of the data transmission system to the central control unit. The central control unit evaluates the data and the determined setpoint values or control commands, which are transmitted, in digital form, from the control unit by the data transmission system to the actuator or drive system. The data transmission between the sensors, actuators, drive system and the central control unit takes place wirelessly and the transmission protocol operates cyclically and with short cycle times, preferably in millisecond pulses. The transmission protocol serves for synchronization of all sensors, actuators and drives, prepares the actual values and the determined setpoint data of all drives in each cycle, the accuracy of the synchronization and the preparation lying in the microsecond range. The transmission protocol maintains essential information redundant and eliminates errors in data transmission, preferably by the HDLC procedure.